IN THE CLAIMS

Please amend the claims as follows:

1. (Original) A cardiac rhythm management device, comprising:

an atrial sensing channel for generating atrial electrogram signals;

circuitry for detecting atrial senses when the atrial electrogram signal exceeds a specified threshold;

circuitry for measuring a time interval between successive atrial senses and for detecting a premature atrial contraction when the time interval meets a specified criterion;

a ventricular pacing channel for delivering pacing pulses to a ventricle; and,

circuitry for causing a ventricular pace to be delivered only when a premature atrial contraction is detected, wherein the ventricular pace is delivered at a specified AV interval following the premature atrial contraction.

- 2. (Cancelled)
- 3. (Original) The device of claim 1 wherein the specified AV interval is a late-pace value.
- 4. (Original) The device of claim 1 wherein the specified AV interval is an early-pace value.
- 5. (Original) The device of claim 4 wherein the AV interval is constrained so that the ventricular pace is delivered after a specified minimum interval from the previous ventricular sense or ventricular pace.

6. (Currently Amended) A cardiac rhythm management device, comprising:

an atrial sensing channel for generating atrial electrogram signals;

circuitry for detecting atrial senses when the atrial electrogram signal exceeds a specified threshold;

circuitry for measuring a time interval between successive atrial senses and for detecting a premature atrial contraction when the time interval meets a specified criterion;

a ventricular pacing channel for delivering pacing pulses to a ventricle;

circuitry for causing a ventricular pace to be delivered in accordance with an atrial tracking bradycardia pacing mode such that a ventricular pace is delivered at a specified AV interval following an atrial sense;

circuitry for modifying shortening the AV interval to an early-pace value when a premature atrial contraction is detected.

- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Currently Amended) The device of claim [[8]] 6 wherein the AV interval is constrained so that the ventricular pace is delivered after a specified minimum interval from the previous sensed or paced ventricular beat.
- 10. (Original) The device of claim 6 wherein the bradycardia pacing mode includes AV sequential pacing.

Dkt: 279.403US1

A method for operating a cardiac rhythm management device, 11. (Previously Presented) comprising:

detecting an atrial sense when an atrial electrogram signal exceeds a specified threshold;

measuring a time interval between successive atrial senses and detecting a premature atrial contraction when the time interval meets a specified criterion;

delivering a pacing pulse to a ventricle only when a premature atrial contraction is detected, wherein the ventricular pace is delivered at a specified AV interval following the premature atrial contraction.

- 12. (Cancelled)
- 13. (Original) The method of claim 11 wherein the specified AV interval is a late-pace value.
- 14. (Original) The method of claim 11 wherein the specified AV interval is an early-pace value.
- 15. (Original) The method of claim 14 wherein the AV interval is constrained so that the ventricular pace is delivered after a specified minimum interval from the previous ventricular sense or ventricular pace.
- A method for operating a cardiac rhythm management device, 16. (Currently Amended) comprising:

detecting an atrial sense when an atrial electrogram signal exceeds a specified threshold;

measuring a time interval between successive atrial senses and detecting a premature atrial contraction when the time interval meets a specified criterion;

delivering pacing pulses to a ventricle in accordance with an atrial tracking bradycardia pacing mode such that a ventricular pace is delivered at a specified AV interval following an atrial sense; and,

modifying shortening the AV interval to an early-pace value when a premature atrial contraction is detected.

Title: VENTRICULAR PACING FOR PREVENTION OF AF

17. (Cancelled)

18. (Cancelled)

The method of claim [[18]] 16 wherein the AV interval is 19. (Currently Amended) constrained so that the ventricular pace is delivered after a specified minimum interval from the previous sensed or paced ventricular beat.

20. (Original) The method of claim 16 wherein the bradycardia pacing mode includes AV sequential pacing.